

Circuit breaker, ComPacT NSX160F, 36kA/415VAC, 4 poles 4D (neutral fully protected), TMD trip unit 100A

C16F4TM100

Main

IVIAIII		
Range	ComPacT new generation	
product name	ComPacT NSX new generation	
Device short name	NSX160F	
Product or component type	Circuit breaker	
Device application	Distribution	
Poles description	4P	
Protected poles description	4D	
Neutral position	Left	
[In] rated current	100 A at 40 °C	
[Ue] rated operational voltage	690 V AC 50/60 Hz	
Network type	AC	
Network frequency	50/60 Hz	
Suitability for isolation	Yes conforming to EN/IEC 60947-2	
Utilisation category	Category A	
[lcu] rated ultimate short-circuit breaking capacity	85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 240 V AC 50/60 Hz conforming to UL 60947-4-1 35 kA Icu at 480 V AC 50/60 Hz conforming to UL 60947-4-1 10 kA Icu at 600 V AC 50/60 Hz conforming to UL 60947-4-1	
Performance level	F 36 kA 415 V AC	
Trip unit name	TM-D	
Trip unit technology	Thermal-magnetic	
Trip unit protection functions	и	
Control type	Toggle	
Circuit breaker mounting mode	Fixed	

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz	
[Uimp] rated impulse withstand voltage	8 kV	

[Ics] rated service short-circuit	85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
breaking capacity	36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
	35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
	30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2
	22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2
	8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	40000 cycles
Electrical durability	40000 cycles at 440 V In/2
_	20000 cycles at 440 V In
	15000 cycles at 690 V In/2
	7500 cycles at 690 V In
Power dissipation per pole	7.7 W
Mounting support	Backplate
Mounting position	Horizontal and vertical
mounting poolson	Flat on the back
Upside connection	Front
	TIOIL
Downside connection	Front
Connection pitch	35 mm
Protection type	L : for overload protection (thermal)
	I : for short-circuit protection (magnetic)
Trip unit rating	100 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
[Ir] long-time protection pick-up adjustment range	0.71 x ln
Long-time protection delay adjustment type tr	Fixed
[tr] long-time protection delay	120400 s at 1.5 x ln
adjustment range	15 s at 6 x lr
Neutral protection settings	1 x lr (4D)
Instantaneous protection pick-up adjustment type li	Fixed
[li] instantaneous protection pick- up adjustment range	800 A
Earth-leakage protection	Without
Number of slots for electrical auxiliaries	5 slot(s)
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.6 kg

Environment

Standards	EN/IEC 60947-2
Overvoltage category	Class II
Electrical shock protection class	Class II
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-5085 °C

Relative humidity	095 %
Operating altitude	02000 m without derating 2000 m5000 m with derating

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14 cm
Package 1 Width	15 cm
Package 1 Length	19 cm
Package 1 Weight	2.83 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	16.98 kg



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	146
Environmental Disclosure	Product Environmental Profile

Use Better

Recycled metal content at CR level	0
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Halogen content performance	Product contains halogen above thresholds
Take-back	No